

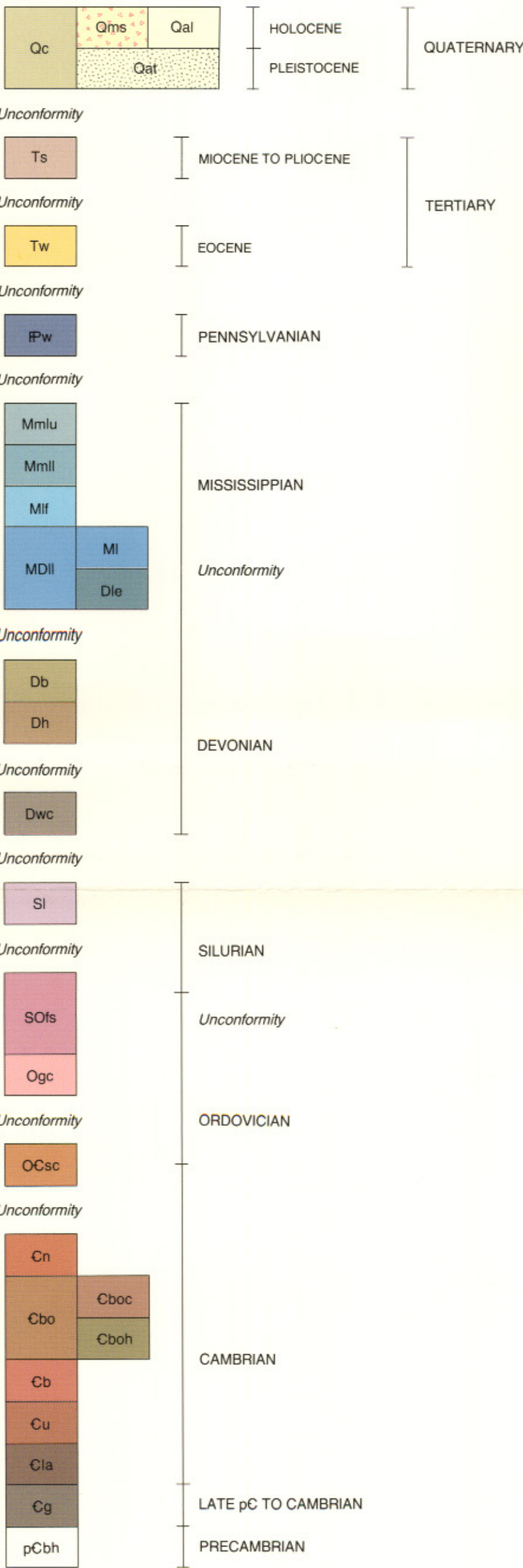




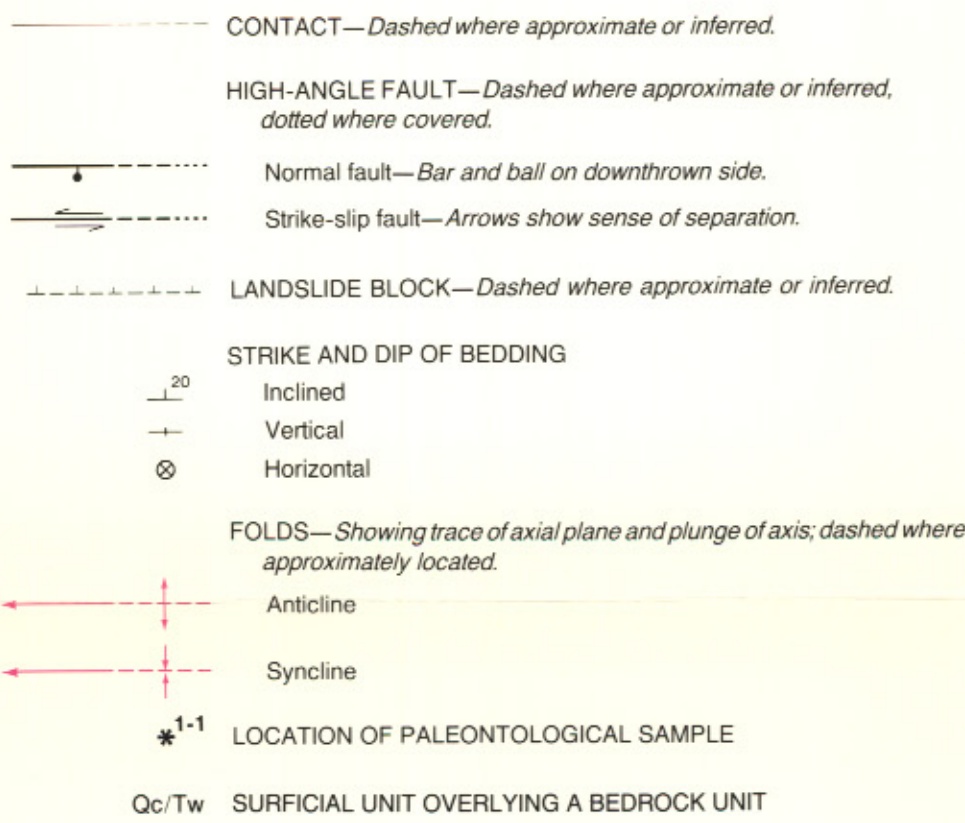
STRATIGRAPHIC COLUMN

		FORMATION	SYMBOL	THICKNESS Feet (Meters)	LITHOLOGY
QUAT.	HOLOCENE	Alluvium	Qal		
		Slump and landslide deposits	Qms		
		Colluvium and talus	Qc	0-40 (0-12)	
		Terrace deposits	Qat	20-50 (6-15)	
		Salt Lake Group	Ts	20+ (6+)	
TERTIARY	Eocene	Wasatch Formation	Tw	200±(60+)	Unconformity
		Wells Formation	IPw	600-900 (180-270)	Unconformity
MISSISSIPPIAN	UPPER	Monroe Canyon Limestone	Mmlu	250-500 (75-150)	Unconformity
			Mmll	500-600 (150-180)	Large solitary corals
	LOWER	Little Flat Formation	Mlf	1210 (363)	
		Lodgepole Limestone	MDli	660-690 (198-207)	Delle Phosphatic Member
					Woodhurst Member
					Paine Member
		Leatham Formation	Die	16-100 (5-30)	Cottonwood Canyon Member
					Unconformity
DEVONIAN	UPPER	Beirdneau Sandstone	Db	710-940 (213-282)	Upper carbonate member
					Middle sandstone member
	MIDDLE	Hyrum Dolomite	Dh	930 (279)	Lower carbonate member
SILURIAN	L.	Water Canyon Formation	Dwc	210 (63)	Samaria Limestone Member
		Laketown Dolomite	Sl	1240-1610 (372-483)	Unconformity
	U. L. MIDDLE AND UPPER	Fish Haven Dolomite	SOfs	125-140 (38-42) 30-110 (9-33)	Chert
					Unconformity
ORDOVICIAN	MIDDLE	Swan Peak Formation	SOfs	30-110 (9-33)	Unconformity
		Garden City Limestone	Ogc	1160-1500 (348-450)	Chert
	LOWER	St. Charles Formation	OCsc	970 (291)	Intraformational conglomerate
					Unconformity
CAMBRIAN	UPPER	Nounan Dolomite	Cn	1070-1125 (321-338)	Worm Creek Quartzite
					Unconformity
	MIDDLE	Bloomington Formation	Cbo	900-1100 (270-330)	Upper limestone member
					Calls Fort Shale
		Blacksmith Dolomite	Cb	320-480 (96-144)	Lower limestone member
					Hodges Shale Member
	LOWER	Langston Formation	Cla	380-410 (114-123)	Upper member
					Spence Shale
PROTEROZOAN	UPPER	Geertsen Canyon Quartzite	Cg	4200 (1260)	Naomi Peak Limestone Member
		Browns Hole Formation	pCbh	Subsurface only	Lower member

CORRELATION OF MAP UNITS



SYMBOLS



DESCRIPTION OF MAP UNITS

Qal	Alluvium—Sand, silt, clay, and some gravel in active streams.
Qms	Mass movement slump and landslide deposits—Disaggregated rock and surficial deposits displaced downslope by gravity.
Qc	Colluvium and talus—Sand, silt, and fragments to blocks of rock at the base of a cliff or steep rocky slope.
Qat	Gravel terrace deposits—Conglomerate deposited at mouths of south-trending canyons along Blacksmith Fork and East Canyon probably during Lake Bonneville time.
Ts	Salt Lake Group—Tuffaceous sandstone and fresh-water limestone conglomerate with quartzite clasts.
Tw	Wasatch Formation—Basal conglomerate with limestone matrix overlain by reddish brown weathering conglomerate with quartzite clasts.
IPw	Wells Formation—Poorly exposed sandstone with few limestone interbeds.
Mmlu	Upper unit of Monroe Canyon Limestone—Medium to dark gray limestone, with very thin basal yellowish brown siltstone; forms ledgy slopes.
Mmll	Lower unit of Monroe Canyon Limestone—Massive cliff-forming limestone and cherty limestone with large solitary corals.
Mlf	Little Flat Formation. Upper unit—Quartz sandstone or siltstone with occasional beds of limestone; forms ledgy slopes. Delle Phosphatic Member—Basal thin-bedded shale, black chert with phosphate pellets, siltstone, and limestone.
MDli	Lodgepole Limestone and Leatham Formation, undifferentiated.
Mi	Lodgepole Limestone. Woodhurst Member—Medium to dark gray limestone cyclically interbedded with calcisiltite or calcareous mudstone; abundant megascopic fossils. Paine Member—Medium to dark gray limestone, thin-bedded; contains black chert nodules, lenses and beds. Cottonwood Canyon Member—Fine-grained sandstone.
Dle	Leatham Formation—Light gray to yellowish brown thin-bedded siltstone and gray limestone; abundant pellets of limonite near base; forms slopes.
Db	Beirdneau Sandstone. Upper carbonate member—Interbedded dolomite and limestone capped by resistant blocky bed of limestone known as the "contact ledge". Middle sandstone member—Dolomitic and calcitic siltstone, sandstone, and quartzite, with minor white chert; thin-to medium-bedded. Lower carbonate member—Light to medium gray yellowish orange and brown limestone and dolomite; varying amounts of quartz sand and silt; thin-to thick-bedded.
Dh	Hyrum Dolomite. Upper unit—Light to dark gray dolomite, dolomitic limestone and limestone; brecciation and deformation of beds common; fetid; few quartzite beds. Samaria Limestone Member—Basal thin-to medium-bedded dolomite, silty dolomite, and limestone, multicolored; ledge-forming.
Dwc	Water Canyon Formation. Grassy Flat Member—Multicolored dolomitic siltstone interbedded with dolomite; grades up into dark gray limestone. Card Member—Light brownish gray boundstone, weathers very light gray; thin-bedded.
Sl	Laketown Dolomite—Light to medium gray dolomite, white to medium gray chert near base and top; forms massive vertical cliffs; thin-to-thick-bedded.
SOfs	Fish Haven Dolomite and Swan Peak Formation, undifferentiated. Fish Haven Dolomite—Dark gray dolomite, thick-to very thick-bedded; scattered chert nodules and lenses; forms cliffs. Swan Peak Formation—Gray shale interbedded with multicolored quartzite and sandstone, laminated to thin-bedded; limey dolomite common at base; poorly exposed.
Ogc	Garden City Limestone—Thin-to medium-bedded blue-gray crystalline and fossiliferous limestone, intraformational conglomerate and limey mudstone, with silty interbeds and lenses, dolomite and black chert near top.
OCsc	St. Charles Formation. Upper dolomite and limestone unit—Cliff-forming, banded light and dark gray dolomite with thin sections of thin-bedded limestone and calcisiltite. Worm Creek Quartzite—Thin bed of fine-grained quartzite overlain by dolomite.
Cn	Nounan Dolomite—Light to dark gray dolomite, fine to coarsely crystalline; sections of dark gray limestone and dolomitic sandstone near top.
Cbo	Bloomington Formation, undifferentiated.
Cboc	Upper limestone and Calls Fort Shale Members of Bloomington Formation—Olive-brown shale overlain by blue-gray limestone.
Cboh	Lower limestone and Hodges Shale Members of Bloomington Formation—Interbedded limestone and shale overlain by blue-gray limestone; forms ledgy slopes.
Cb	Blacksmith Dolomite—Cliff-forming, medium-bedded to massive dolomite, light to medium gray.
Cu	Ute Limestone—Thin-bedded blue-gray limestone and olive-brown shale; reddish brown weathering; thin-bedded silty limestone at base.
Cla	Langston Formation. Upper member—Light to dark blue-gray dolomite and dark gray limestone; reddish brown weathering. Spence Shale Member—Light olive-brown to dusky yellow shale. Naomi Peak Limestone Member—Thin-bedded, blue-gray limestone. Lower member—Interbedded dolomite and limestone as found in upper member.
Cg	Geertsen Canyon Quartzite—Thick-bedded to massive light gray to brown quartzite; some pebble conglomerate.
pCbh	Browns Hole Formation—Quartzite, volcanic rocks, and shale; on cross section only.

